

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number  
**WO 2005/040689 A2**

- (51) International Patent Classification<sup>7</sup>: **F24F**
- (21) International Application Number:  
PCT/KR2004/002379
- (22) International Filing Date:  
16 September 2004 (16.09.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
10-2003-0074377 23 October 2003 (23.10.2003) KR
- (71) Applicant (for all designated States except US): **LG ELECTRONICS INC.** [KR/KR]; 20, Yoido-Dong, Yongdunpo-Gu, Seoul 150-010 (KR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **EOM, Yoon-Seob**

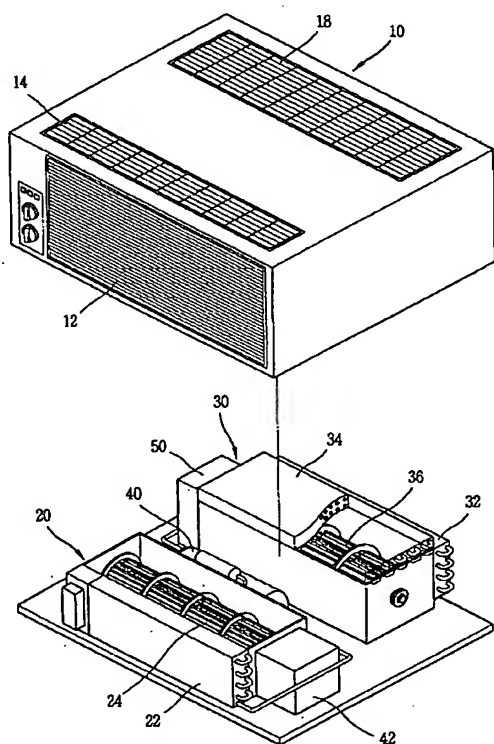
[KR/KR]; Woosung Apt. 101-1006, Namyang-Dong, Changwon, Gyung-sangnam-Do 641-091 (KR). **KOO, Jeong-Hwan** [KR/KR]; 18/4, 1346-22, Daeyeon 5-Dong, Nam-Gu, Busan 608-808 (KR). **PARK, Nae-Hyun** [KR/KR]; 17-346, Bulgwang 1-Dong, Eunpyeong-Gu, Seoul 122-847 (KR). **HAN, Dong-Joo** [KR/KR]; 944-3, Dongsam 2-Dong, Yeongdo-Gu, Busan 606-804 (KR). **RYOO, Byeong-Jo** [KR/KR]; Daedong Cheongsol Apt. 103-1905, Anmin-Dong, Changwon, Gyung-sangnam-Do 641-150 (KR). **LEE, Kyung-Soo** [KR/KR]; 705-17, Sujeong 3-Dong, Dong-Gu, Busan 601-817 (KR).

(74) Agent: **PARK, Jang-Won**; Jewoo Bldg. 5th Floor, 200, Nonhyun-Dong, Gangnam-Gu, Seoul 135-010 (KR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,

[Continued on next page]

(54) Title: WINDOW TYPE AIR CONDITIONER



(57) Abstract: A window type air conditioner comprises: an indoor unit mounted inside a case positioned at the indoor side thus to be heat-exchanged with the indoor air; an outdoor heat exchanger mounted inside a case positioned at the outdoor side thus to be heat-exchanged with the outdoor air; and an outdoor cross flow fan for generating a blowing force so that the outdoor air can pass through the outdoor heat exchanger and for sucking the outdoor air in a circumferential direction thereof and thereby discharging the outdoor air in the circumferential direction thereof. According to this, noise is lowered, the air volume lowering due to a channel resistance is prevented, and the entire size of the air conditioner is minimized.

WO 2005/040689 A2



KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- (84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

— *without international search report and to be republished upon receipt of that report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*